



Dr IAN J. EVANS

Home: 38 Wilmington Close, Woodley, Reading, Berks RG5 4LR
Tel: (0118) 9441961

Work: Syngenta, Jealott's Hill Research Station, Bracknell, Berks
RG42 6EY
Tel: (01344) 414578 (direct line)
email: ian.evans@syngenta.com

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KEY SKILLS

- **Molecular biology**
 - Extensive practical experience and knowledge of the application and interpretation of molecular biology techniques
 - Trained in a wide range of software tools.
- **Project management**
 - Establishment and leadership of projects in a wide range of scientific areas.
- **Industrial experience**
 - 17 years experience of Industrial research environments in small, medium and large companies.
- **Management / Interpersonal**
 - many successful interactions with a wide range of individuals within and outside the company.
 - Extensive line management experience, currently managing a group of 12.
- **Regulatory / Safety**
 - Have held several positions involved in safety regulation, including Biological Safety Officer & chair of local GM safety committee. Intimately involved in the local implementation of UK GM regulations.

ACADEMIC QUALIFICATIONS

1980 - 1983	PhD, Department of Genetics	University of Nottingham
1977 - 1980	BSc Honours Genetics (1st Class)	University of Nottingham

EMPLOYMENT

Nov 2000 – present	Senior Research Scientist & Group Leader, Syngenta At same location prior to this, Senior Research Scientist with: AstraZeneca 1998-2000 Zeneca Agrochemicals 1995-1998 Zeneca Seeds 1993-1995 ICI Seeds 1987-1993
1986 - Dec '87	Senior Research Scientist, Celltech / Apcel Ltd , Slough UK
1983 - 1986	Higher Scientific Officer, John Innes Institute , Norwich, UK

RESEARCH INTERESTS AND EXPERIENCE

➤ **John Innes Institute** - (postdoc on EU Biomolecular Engineering programme)

- Characterisation of 'nodulation genes' of *Rhizobium leguminosarum* through cloning, sequence analysis, mutagenesis and complementation.
- Helped establish large scale (for that era..) DNA sequencing and the local use of DNA sequence analysis software

Key skills: DNA sequencing & analysis, microbial mutagenesis, biological assays

➤ **Apcel / Celltech Ltd** -

- Development of novel industrially-viable *E.coli* protein secretion systems
- Cloning and characterisation in *E.coli*, and expression in *Streptomyces*, of large regions of *Streptomyces* DNA encoding entire antibiotic-biosynthesis pathways.
- Provided molecular expertise for projects involving other industrially important bacterial species.

Key skills: Gene cloning & expression, vector development, protein expression & localisation, plasmid biology.

➤ **ICI / Zeneca / AstraZeneca / Syngenta** -

Led teams responsible for :

- The isolation, characterisation, and modification of genes and promoters from diverse sources and their incorporation into plant transformation vectors. Project areas have included crop traits such as insect-, herbicide- and disease-resistance, recently involving Antifungal proteins, and anti-viral RNAi strategies.
- Heterologous protein production: Use of microbial systems to produce gramme quantities of pure proteins for regulatory studies, and their subsequent characterisation.
- Implementation of Expression profiling technology (eg Microarrays). Key player in the company's collaboration with Incyte Genomics.
- Member of a Bioinformatics project team - ensuring the installation and optimisation of appropriate bioinformatics systems for molecular biology research, and it's associated training

Current Position : "Senior Research Scientist "

- **Group Leader**, currently line-managing teams responsible for:
 - Promoter discovery & characterisation
 - Quality Assurance of molecular constructs
 - DNA sequencing
 - Plant virus resistance via RNAi
- **Project leader** for Multivirus resistance projects
 - Coordination of international scale projects.
- **Other roles:**
 - Chairman of the local GM Safety Committee & Deputy Biological Safety officer.

PUBLICATIONS

Have published papers in a number of journals including Nature, Nature Biotechnology and Journal of Molecular Biology, a selection of which are detailed below, and am an inventor on several ICI/Zeneca patent applications.

- EVANS IJ, JAMES AM & BARNES SR
"Organisation and evolution of repeated DNA sequences in closely related plant genomes"
J Mol Biol (1983) 170 803-826
- GOTZ R, EVANS IJ, DOWNIE JA & JOHNSTON AWB
"Identification of the host-range DNA which allows *Rhizobium leguminosarum* strain TOM to nodulate cv. Afghanistan peas"
Mol Gen Genet (1985) 201 296-300
- EVANS IJ & DOWNIE JA
"The *nodI* gene product of *Rhizobium leguminosarum* is closely related to ATP-binding bacterial transport proteins; nucleotide sequence analysis of the *nodI* and *nodJ* genes"
Gene (1986) 43 95-101
- ROSSEN L, JOHNSTON AWB, FIRMIN JL, SHEARMAN CA, EVANS IJ & DOWNIE JA
"Structure, function and regulation of nodulation genes of *Rhizobium*"
Oxford Surveys of Plant Molecular & Cell Biology (1986) 3 441-447
- HIGGINS CF, HILES ID, SALMOND GPC, GILL DR, DOWNIE JA, EVANS IJ, HOLLAND IB, GRAY L, BUCKEL SD, BELL AW & HERMONDSON MA
"A family of related ATP-binding subunits coupled to many distinct biological processes in bacteria"
Nature (1986) 323 448-450
- DAVIS EO, EVANS IJ & JOHNSTON AWB
"Identification of *NodX*, a gene that allows *Rhizobium leguminosarum* biovar *visiae* strain TOM to nodulate Afghanistan peas"
Mol Gen Genet (1988) 212 531-535
- LITTLE S, CAMPBELL CJ, EVANS IJ, HAYWARD EC, LILLEY RJ & ROBINSON MK
"A short N-proximal region of prochymosin inhibits the secretion of hybrid proteins from *Escherichia coli*"
Gene (1989) 83 321-329
- REGISTER JC, PETERSON DJ, BELL PJ, BULLOCK WP, EVANS IJ, FRAME B, GREENLAND AJ, HIGGS NC, JEPSON I, JIAO S, LEWNAU CJ, SILICK JM & WILSON HM
"Structure and function of selectable and nonselectable transgenes in maize after introduction by particle bombardment"
Plant Mol Biol (1994) 25 951-961
- HALL RD, RIKSEN-BRUIJNSMA T, WEYENS GJ, ROSQUIN IJ, DENYS PN, EVANS IJ, LATHOUWERS JE, LEFEBVRE MP, DUNWELL JM, van TUNEN A & KRENS FA.
"A high efficiency technique for the generation of transgenic sugar beets from stomatal guard cells"
Nature Biotechnology (1996) 14 1133-1138
- TAILOR RH, ACLAND DP, ATTENBOROUGH S, CAMMUE BPA, EVANS IJ, OSBORN RW, RAY JA, REES SB & BROEKAERT WF
"A novel family of small cysteine-rich antimicrobial peptides from seed of *Impatiens balsamina* is derived from a single precursor protein"
J Biol Chem (1997) 272 24480-24487
- EVANS IJ & GREENLAND AJ
"Transgenic approaches to disease protection: Applications of antifungal proteins"
Pesticide Science (1998) 54 353-359

REFEREES

Current line manager:

Dr Ian Jepson
CGR
Syngenta
Jealott's Hill
Bracknell Berks RG42 6EY

Tel: (01344) 414175
email: ian.jepson@syngenta.com

Previous line manager:

Dr Sarah Rees
Project Portfolio Manager
Syngenta
Jealott's Hill
Bracknell Berks RG42 6EY

Tel: (01344) 413190
email: sarah.rees@syngenta.com

PhD supervisor at Nottingham and former colleague at ICI & Zeneca:

- 3) Dr Steve Barnes
SES Europe,
Industriepark 15
B-3300 Tienen
Belgium
- Tel: 32-(0)16/82.11.11
email: steve.barnes@ses-europe.be